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<input type="checkbox"/>	L15	L12 and 370/27\$.ccls.	0
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Digital Object Identifier 10.1109/TPDS.2005.111
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Varshney, U.; Vetter, R.J.; Kalakota, R.;
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Systems, Man and Cybernetics, Part A, IEEE Transactions on
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Wireless Communications and Networking, 2003. WCNC 2003. 2003 IEEE
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- 14. Scalable cluster administration - Chiba City I approach and lessons learned**
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1 [Middleware for mobility: SyD: a middleware testbed for collaborative applications over small heterogeneous devices and data stores](#)

Sushil K. Prasad, Vijay Madiseti, Shamkant B. Navathe, Raj Sunderraman, Erdogan Dogdu, Anu Bourgeois, Michael Weeks, Bing Liu, Janaka Balasooriya, Arthi Hariharan, Wanxia Xie, Praveen Madiraju, Srilaxmi Malladi, Raghupathy Sivakumar, Alex Zelikovsky, Yanqing Zhang, Yi Pan, Saied Belkasim

October 2004 **Proceedings of the 5th ACM/IFIP/USENIX international conference on Middleware**

Full text available: pdf(441.56 KB) Additional Information: [full citation](#), [abstract](#), [references](#)

Developing a collaborative application running on a collection of heterogeneous, possibly mobile, devices, each potentially hosting data stores, using existing middleware technologies such as JXTA, BREW, compact .NET and J2ME requires too many ad-hoc techniques as well as cumbersome and time-consuming programming. Our System on Mobile Devices (SyD) middleware, on the other hand, has a modular architecture that makes such application development very systematic and streamlined. The architecture s ...

Keywords: SyD coordination bonds, application-level QoS, atomic transactions, mobile servers, object and web service coordination

2 [MARE: resource discovery and configuration in ad hoc networks](#)

Matt Storey, Gordon Blair, Adrian Friday

October 2002 **Mobile Networks and Applications**, Volume 7 Issue 5

Full text available: pdf(246.73 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The emergence of personal portable devices, such as PDA's and Mobile phones, with considerable processing and communication capabilities, has led to a desire to use various combinations of these devices together to achieve new and as yet unrealised operations. Not only are mobile devices expected to offer conventional facilities like email and web browsing but also more demanding multimedia applications. Attaining these operations within a fixed network environment with high-power workstations i ...

Keywords: ad hoc, mobile agents, resource discovery, tuple space

3 People, places, things: web presence for the real world

Tim Kindberg, John Barton, Jeff Morgan, Gene Becker, Debbie Caswell, Philippe Debaty, Gita Gopal, Marcos Frid, Venky Krishnan, Howard Morris, John Schettino, Bill Serra, Mirjana Spasojevic
October 2002 **Mobile Networks and Applications**, Volume 7 Issue 5

Full text available:  pdf(248.58 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

The convergence of Web technology, wireless networks, and portable client devices provides new design opportunities for computer/communications systems. In the HP Labs' "Cooltown" project we have been exploring these opportunities through an infrastructure to support "web presence" for people, places and things. We put web servers into things like printers and put information into web servers about things like artwork; we group physically related things into places embodied in web servers. Using ...

Keywords: location-aware computing, nomadic computing, physical-virtual linkage, ubiquitous computing, world wide web

4 Service infrastructure and network management: Using code collection to support large applications on mobile devices

Lucian Popa, Irina Athanasiu, Costin Raiciu, Raju Pandey, Radu Teodorescu
September 2004 **Proceedings of the 10th annual international conference on Mobile computing and networking**

Full text available:  pdf(252.95 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The progress of mobile device technology unfolds a new spectrum of applications that challenges conventional infrastructure models. Most of these devices are perceived by their users as "appliances" rather than computers and accordingly the application management should be done transparently by the underlying system unlike classic applications managed explicitly by the user. Memory management on such devices should consider new types of mobile applications involving code mobility such as mobile ...

Keywords: caching, code collection, garbage collection

5 Best poster papers from MobiHoc 2002: Virtual operator based AAA in wireless LAN hot spots with ad-hoc networking support

Junbiao Zhang, Jun Li, Stephen Weinstein, Nan Tu
June 2002 **ACM SIGMOBILE Mobile Computing and Communications Review**, Volume 6 Issue 3

Full text available:  pdf(180.11 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Sound and effective authentication, authorization and accounting (AAA) schemes for convenient and secure mobile wireless accesses are of great importance given the increased popularity and business opportunities in public wireless LAN hot spots. One possible scheme, which uses the mobile users' service providers as the single point of contact for all AAA transactions, is emerging as a very promising solution. We refer to such service providers as "virtual operators". In this paper, we discuss va ...

6 Security on the move: indirect authentication using Kerberos

Armando Fox, Steven D. Gribble
November 1996 **Proceedings of the 2nd annual international conference on Mobile computing and networking**

Full text available:  pdf(1.34 MB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

7 Services: ELF: an efficient log-structured flash file system for micro sensor nodes

Hui Dai, Michael Neufeld, Richard Han

November 2004 **Proceedings of the 2nd international conference on Embedded networked sensor systems**

Full text available:  [pdf\(291.68 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)


An efficient and reliable file storage system is important to micro sensor nodes so that data can be logged for later asynchronous delivery across a multi-hop wireless sensor network. Designing and implementing such a file system for a sensor node faces various challenges. Sensor nodes are highly resource constrained in terms of limited runtime memory, limited persistent storage, and finite energy. Also, the flash storage medium on sensor nodes differs in a variety of ways from the traditional ...

Keywords: eeprom, file system, flash, log structured, reliability, sensor

8 A situated computing framework for mobile and ubiquitous multimedia access using small screen and composite devices

Thai-Lai Pham, Georg Schneider, Stuart Goose

October 2000 **Proceedings of the eighth ACM international conference on Multimedia**

Full text available:  [pdf\(952.99 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

In recent years, small screen devices, such as cellular phones or Personal Digital Assistants (PDAs), enjoy phenomenal popularity. PDAs can be used to complement traditional computing systems to access personal multimedia information beyond the usage as digital organizers. However, due to the physical limitations accessing rich multimedia contents and diverse services using a single PDA is more difficult. Hence, the Situated Computing Framework (SCF) research project at Siemens Corporate Rese ...

Keywords: WWW, composite devices, mobile and ubiquitous computing, situated computing

9 Disconnected processes, mechanisms and architecture for mobile e-business

J. Sairamesh, S. Goh, I. Stanoi, S. Padmanabhan, C. S. Li

December 2004 **Mobile Networks and Applications**, Volume 9 Issue 6

Full text available:  [pdf\(625.38 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

With the tremendous advances in hand-held computing and communication capabilities, rapid proliferation of mobile devices, and decreasing device costs, we are seeing a growth in mobile e-business in various consumer and business markets. In this paper, we present a novel architecture and framework for end-to-end mobile e-business applications (e.g., point of sales). The architecture takes into consideration disconnection, application context, synchronization, transactions and failure recovery ...

Keywords: failure recovery, mobile commerce, mobile disconnection, mobile e-business, remote disconnection, seamless business transaction

10 A composable framework for secure multi-modal access to internet services from Post-PC devices

Steven J. Ross, Jason L. Hill, Michael Y. Chen, Anthony D. Joseph, David E. Culler, Eric A. Brewer

October 2002 **Mobile Networks and Applications**, Volume 7 Issue 5

Full text available:  pdf(340.33 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#), [review](#)

The Post-PC revolution is bringing information access to a wide range of devices beyond the desktop, such as public kiosks, and mobile devices like cellular telephones, PDAs, and voice based vehicle telematics. However, existing deployed Internet services are geared toward the secure rich interface of private desktop computers. We propose the use of an infrastructure-based secure proxy architecture to bridge the gap between the capabilities of Post-PC devices and the requirements of Internet ser ...

Keywords: internet, middleware, post-PC, security, transcoding

11 Oasis: an architecture for simplified data management and disconnected operation 

Maya Rodrig, Anthony LaMarca

March 2005 **Personal and Ubiquitous Computing**, Volume 9 Issue 2

Full text available:  pdf(450.62 KB) Additional Information: [full citation](#), [abstract](#)

Oasis is an asymmetric peer-to-peer data management system tailored to the requirements of pervasive computing. Drawing upon applications from the literature, we motivate three high-level requirements: availability, manageability, and programmability. Oasis addresses these requirements by employing a peer-to-peer network of weighted replicas and performing background self-tuning. In this paper, we describe our architecture, our consistency-control mechanism, and an initial implementation. Our pe ...

12 Designing computer systems with MEMS-based storage 

Steven W. Schlosser, John Linwood Griffin, David F. Nagle, Gregory R. Ganger

November 2000 **Proceedings of the ninth international conference on Architectural support for programming languages and operating systems**, Volume 34 , 28 Issue 5 , 5

Full text available:  pdf(439.06 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

For decades the RAM-to-disk memory hierarchy gap has plagued computer architects. An exciting new storage technology based on microelectromechanical systems (MEMS) is poised to fill a large portion of this performance gap, significantly reduce system power consumption, and enable many new applications. This paper explores the system-level implications of integrating MEMS-based storage into the memory hierarchy. Results show that standalone MEMS-based storage reduces I/O stall times by 4-74X over ...


13 Designing computer systems with MEMS-based storage 

Steven W. Schlosser, John Linwood Griffin, David F. Nagle, Gregory R. Ganger

November 2000 **ACM SIGPLAN Notices**, Volume 35 Issue 11

Full text available:  pdf(439.06 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

For decades the RAM-to-disk memory hierarchy gap has plagued computer architects. An exciting new storage technology based on microelectromechanical systems (MEMS) is poised to fill a large portion of this performance gap, significantly reduce system power consumption, and enable many new applications. This paper explores the system-level implications of integrating MEMS-based storage into the memory hierarchy. Results show that standalone MEMS-based storage reduces I/O stall times by 4--74X ove ...

14 State of the art: System challenges for ubiquitous & pervasive computing 

Roy Want, Trevor Pering

May 2005 **Proceedings of the 27th international conference on Software engineering**

Full text available: [pdf\(224.35 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The terms Ubiquitous and Pervasive computing were first coined at the beginning of the 90's, by Xerox PARC and IBM respectively, and capture the realization that the computing focus was going to change from the PC to a more distributed, mobile and embedded form of computing. Furthermore, it was predicted by some researchers that the true value of embedded computing would come from the orchestration of the various computational components into a much richer and adaptable system than had previousl ...

Keywords: context-aware, power management, ubiquitous & pervasive computing, user interface adaptation, wireless discovery

15 Mobile data management: Middleware support for reconciling client updates and data transcoding

Thomas Phan, George Zorpas, Rajive Bagrodia

June 2004 **Proceedings of the 2nd international conference on Mobile systems, applications, and services MobiSys '04**

Full text available: [pdf\(4.80 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In mobile Internet applications, data can be transcoded, updated, and transferred across heterogenous clients. The problem then arises where updates made in the context of an initial transcoding results in content too stringently transcoded for subsequent clients, thereby causing loss of semantic value. We solve this problem by suggesting that the updates themselves can be transformed so that they can be applied directly to the original data instead of to the transcoded data; this approach allow ...

Keywords: client updates, data management, middleware, mobile computing, reconciliation, transcoding

16 Multi-sensor context-awareness in mobile devices and smart artifacts

Hans W. Gellersen, Albercht Schmidt, Michael Beigl

October 2002 **Mobile Networks and Applications**, Volume 7 Issue 5

Full text available: [pdf\(240.60 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

The use of context in mobile devices is receiving increasing attention in mobile and ubiquitous computing research. In this article we consider how to augment mobile devices with awareness of their environment and situation as context. Most work to date has been based on integration of generic context sensors, in particular for location and visual context. We propose a different approach based on integration of multiple diverse sensors for awareness of situational context that can not be inferre ...

Keywords: context-awareness, mobile computing, sensor integration, ubiquitous computing

17 Monitoring, security, and dynamic configuration with the dynamicTAO reflective ORB

Fabio Kon, Manuel Román, Ping Liu, Jina Mao, Tomonori Yamane, Claudio Magalhã, Roy H. Campbell

April 2000 **IFIP/ACM International Conference on Distributed systems platforms**

Full text available: [pdf\(482.36 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

Conventional middleware systems fail to address important issues related to dynamism. Modern computer systems have to deal not only with heterogeneity in the underlying hardware and software platforms but also with highly dynamic environments. Mobile and

distributed applications are greatly affected by dynamic changes of the environment characteristic such as security constraints and resource availability. Existing middleware is not prepared to react to these changes. In many cases, applicati ...

18 Heap compression for memory-constrained Java environments

G. Chen, M. Kandemir, N. Vijaykrishnan, M. J. Irwin, B. Mathiske, M. Wolczko
October 2003 **ACM SIGPLAN Notices , Proceedings of the 18th annual ACM SIGPLAN conference on Object-oriented programing, systems, languages, and applications**, Volume 38 Issue 11

Full text available:  pdf(2.14 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citing](#), [index terms](#)

Java is becoming the main software platform for consumer and embedded devices such as mobile phones, PDAs, TV set-top boxes, and in-vehicle systems. Since many of these systems are memory constrained, it is extremely important to keep the memory footprint of Java applications under control. The goal of this work is to enable the execution of Java applications using a smaller heap footprint than that possible using current embedded JVMs. We propose a set of memory management strategies to reduce h ...

Keywords: Java virtual machine, garbage collection, heap, memory compression

19 A survey of customizability in operating systems research

G. Denys, F. Piessens, F. Matthijs
December 2002 **ACM Computing Surveys (CSUR)**, Volume 34 Issue 4

Full text available:  pdf(149.83 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citing](#), [index terms](#)

An important goal of an operating system is to make computing and communication resources available in a fair and efficient way to the applications that will run on top of it. To achieve this result, the operating system implements a number of policies for allocating resources to, and sharing resources among applications, and it implements safety mechanisms to guard against misbehaving applications. However, for most of these allocation and sharing tasks, no single optimal policy exists. Differe ...

Keywords: Customizability, microkernels, operating systems, software protection mechanisms

20 Smart identification frameworks for ubiquitous computing applications

Kay Römer, Thomas Schoch, Friedemann Mattern, Thomas Dübendorfer
November 2004 **Wireless Networks**, Volume 10 Issue 6





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We present our results of the conceptual design and the implementation of ubiquitous computing applications using smart identification technologies. First, we describe such technologies and their potential application areas, then give an overview of some of the applications we have developed. Based on the experience we have gained from developing these systems, we point out design concepts that we have found useful for structuring and implementing such applications. Building upon these concep ...

Keywords: Jini, RFID tags, ubiquitous computing, virtual counterparts, web services

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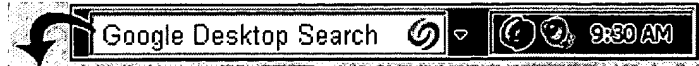
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